

THERAPEUTIC EXERCISE DEVICE WITH ADJUSTABLE FRAME FOR
WHEELCHAIR USERS AND STANDARD FOUR LEGGED CHAIR USERS

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ABSTRACT

A leg exerciser for the wheelchair bound or a basic four legged chair user which includes which is placed on the floor the frame is designed to be adjustable to suit the users leg length. The frame has a horizontal end member at one end with retaining plates attached, proportionately spaced to retain the front wheels of a wheelchair or the two front legs of a basic four legged chair therein. The front wheels of the wheelchair or the two front legs of the basic four legged chair fit in front of the horizontal end member. This arrangement thus serves to fix the position of the wheelchair or basic four legged chair relative to the exerciser and to prevent relative movement between the wheelchair or basic four legged chair and the exerciser. The forces exerted on the exerciser are directed so that the front wheels of the wheelchair or the two front legs of the basic four legged chair are caused to engage the horizontal end member and its retaining plates which prevents the rearward movement of the chair or any forward movement of the exerciser. A shock absorber provides resistance

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against a pivoting radius arm to which foot pedals are attached. Return force is provided to cause the foot pedals and radius arm to return to an initial resting position.

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